RAW SEQUENCE LISTING ERROR REPORT
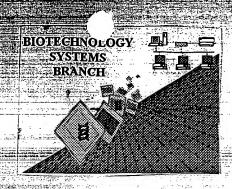
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _O9/218,913A_

Source: _1652_

Date Processed by STIC: _1/8/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY. or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

P. Yung

RAW SEQUENCE LISTING   DATE: 01/08/2001
PATENT APPLICATION: US/09/218,913A   TIME: 15:07:46

**Does Not Comply
Corrected Diskette Needed**

Input Set : A:\98,736.Seq.Lst.Rev.txt
Output Set: N:\CRF3\01082001\I218913A.raw

```
   3 <110> APPLICANT: Hall, Roderick L
   4        Poll, Christopher T.
   5        Newton, Benjamin B.
   6        Taylor, William J.A.
   8 <120> TITLE OF INVENTION: A Method for Accelerating the Rate of Mucociliary Clearance
   9 <130> FILE REFERENCE: 98,736
  11 <140> CURRENT APPLICATION NUMBER: 09/218,913A
  12 <141> CURRENT FILING DATE: 1998-12-22
  14 <160> NUMBER OF SEQ ID NOS: 71
  16 <170> SOFTWARE: Microsoft Word 97


ERRORED SEQUENCES

1514 <210> SEQ ID NO: 64
1515 <211> LENGTH: 20
1516 <212> TYPE: PRT
1517 <213> ORGANISM: Homo sapien
1519 <220> FEATURE:
1520 <223> OTHER INFORMATION: /note= "Human Bikunin protein fragment"
1522 <400> SEQUENCE: 64
1523 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
1524 1               5                   10                  15
1526 Val Gly Arg Cys
1527              20  20  misaligned amino acid number
1667 <210> SEQ ID NO: 71
1668 <211> LENGTH: 225
1669 <212> TYPE: PRT
1670 <213> ORGANISM: Homo sapien
1672 <220> FEATURE:
1673 <223> OTHER INFORMATION: /note= "Human Bikunin protein fragment"
1675 <400> SEQUENCE: 71
1676 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
1677 1               5                   10                  15
1679 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
1680              20                  25                  30
1682 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
1683              35                  40                  45
1685 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
1686              50                  55                  60
1688 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
1689 65                  70                  75                  80
1691 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
1692              85                  90                  95
1694 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
1695              100                 105                 110
1697 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
```

see next page

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RAW SEQUENCE LISTING              DATE: 01/08/2001
PATENT APPLICATION:  US/09/218,913A      TIME: 15:07:47

      Input Set : A:\98,736.Seq.Lst.Rev.txt
      Output Set: N:\CRF3\01082001\I218913A.raw

   1698       115              120              125
   1700 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
   1701       130              135              140
   1703 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
   1704 145              150              155              160
   1706 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
   1707              165              170              175
   1709 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr
   1710              180              185              190
   1712 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val
   1713       195              200              205
   1715 Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val
   1716       210              215              220
   1718 Leu
   1719 225
E--> 1726 (1
```

delete at end of file

see following page for more error

Input Set : A:\98,736.Seq.Lst.Rev.txt
Output Set: N:\CRF3\01082001\I218913A.raw

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L:9    M:283 W: Missing Blank Line separator, <130> field identifier
L:272  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:274  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:323  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:329  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:345  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:348  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:351  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:354  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:363  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:366  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:369  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:372  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:418  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:426  M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:455  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:458  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:461  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:489  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:491  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:504  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:507  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:528  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:531  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
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L:548  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:562  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:575  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:585  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:587  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:597  M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:991  M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:1098 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:1205 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:1527 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64
L:1726 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:71
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